TAMRON®

NEW

SP AF180mm F/3.5 Di LD (IF) MACRO1:1

Life's Little Subjects- Tamron's Great Power

Di Digitally Integrated Design

SUPER PERFORMANCE SP

For Canon AF, Minolta AF-D, and Nikon AF-D cameras.

http://www.tamron.com/

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A 180mm telephoto macro lens exhibits
its great power when taking macro shots of small distant subjects,
while medium telephoto macro lens
sometimes lack the ability to fill the frame in these situations.

Exposure: Open Aperture Auto ISO100

SP AF180mm F/3.5 Di LD (IF) MACRO1:1

Model B01

Soft out-of-focus backgrounds and superior optical performance – introducing a telephoto macro that lives up to its legendary SP90mm counterpart.

NEW For Canon AF, Minolta AF-D, and Nikon AF-D cameras.

Exposure: Programmed Auto ISO100

- **Employs an IF** (Internal Focusing) **system that maintains the overall length of the lens during focusing**
- **Uses two LD** (Low Dispersion) **glass elements that effectively compensate for chromatic aberration**
- **Provides high-contrast, outstanding image quality and a soft out-of-focus background effect**
- **Incorporates an AF/MF one touch switchover mechanism built into the focus ring** * for Canon and Nikon AF only
- **Designated as one of the Di-series**
  Di ("Digitally Integrated Design") is a designation Tamron puts on lenses featuring optical systems designed to meet the performance characteristics of digital SLR cameras.
- **Super Performance Series**
  Provides high performance through outstanding design specifications.
- **Features the new FEC** (Filter Effect Control) **function that enhances operational ease of Polarizing Filter use**
  The new Filter Effect Control is designed to rotate the filter to the desired position while the hood is attached. This is accomplished by turning the FEC ring that in turn rotates the portion of the filter mount where the filter is mounted.
  * Please use 72mm diameter PL filters.

Exposure: Programmed Auto Macro Magnification Ratio: 1:1 (life-size)

PL Filter Effect (strong reflections)

PL Filter Effect (controlled reflections)

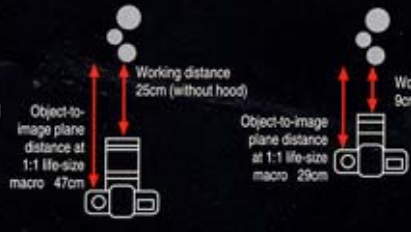
- **Advantages of a 180mm macro lens**
  It's a versatile fixed focal length lens that combines features of a 200mm class telephoto lens often used for scenery. It's an indispensable macro lens for taking the type of close-up shots often desired in nature photography. This is a must-have macro lens that will quickly become a favorite and will certainly round out your photo equipment arsenal.

- **What does a "1:1 life-size macro ratio" mean?**
  It means that your subject is captured in actual size on film (or on image sensors such as CCD, CMOS, etc.). Since the result is a huge magnification ratio when enlarged on an actual print, superior optical performance is required in a 1:1 life-size macro lens.

- **Comparison of 1:1 life-size image with 180mm and 90mm macro lenses (perspective)**
  The magnification ratio of the subject (coin) is the same 1:1 ratio. However, due to the stereoscopic effect, the size of the coin in the background and the impression of the depth are different.

180mm (at F/16)

90mm (at F/16)


Working distance 25cm (without hood)
Object-to-image plane distance at 1:1 life-size macro 47cm
Working distance 9cm (without hood)
Object-to-image plane distance at 1:1 life-size macro 29cm

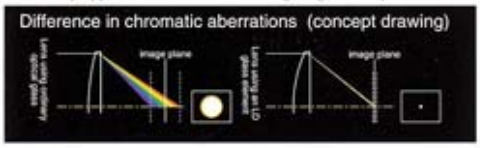
SP AF 180mm F/3.5 Di LD (IF) MACRO 1:1 NEW

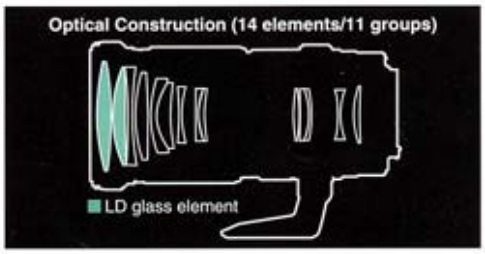
Features floating IF system that maintains the overall lens length

The lens features Tamron's original floating IF (Internal Focusing) system designed to move groups of lens elements within the lens barrel when focusing. The lens' overall length does not change and therefore maintains optimum balance for better handling and allows you to maintain your position while focusing for better image composition.

Uses two LD glass elements for effective compensation of chromatic aberrations ensuring outstanding image quality

LD (Low Dispersion) glass elements minimize the sharpness fall-off often seen as a result of the chromatic aberrations that are commonly apparent in the closer focusing range of telephoto lenses.





One-touch AF/MF switchover with the Focus Ring Switchover mechanism*

Simply sliding the focus ring back and forth quickly performs the one-touch AF/MF switchover function. The newly designed focus ring is sufficiently wider to enhance handling comfort while in the macro mode since this type of shooting involves frequent switching between AF and MF.

*The one-touch switchover function is available in Nikon AF-D and Canon AF mounts only. Minolta AF mount lens requires a two-step operation (camera and lens) since the switchover operation occurs on the camera.

Model B01 Specifications

Model :	B01
Focal Length :	180mm
Angle of View :	14°
Maximum Aperture :	F/3.5
Optical Construction :	14 elements in 11 groups
Number of Diaphragm :	7 blades
Minimum Object Distance :	0.47m (18.5")
Overall Length :	165.7mm (6.5")
Maximum Diameter :	84.8mm (3.3")
Filter Size :	72mm
Weight :	920 grams (32.5 oz.)
Standard Accessories	Lens hood and Case

For Canon AF, Minolta AF-D, and Nikon AF-D cameras.

SP AF 90mm F/2.8 MACRO 1:1

Model 172E
For Canon AF, Minolta AF-D, Nikon AF-D, and Pentax AF cameras.

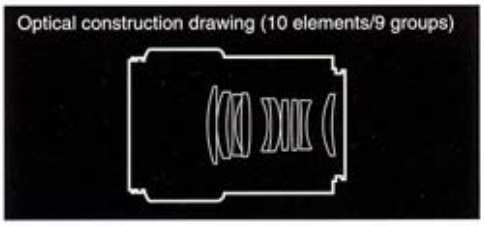
Often referred to as "the portrait macro," this medium telephoto macro lens is ideal for a variety of subjects and is very convenient to use

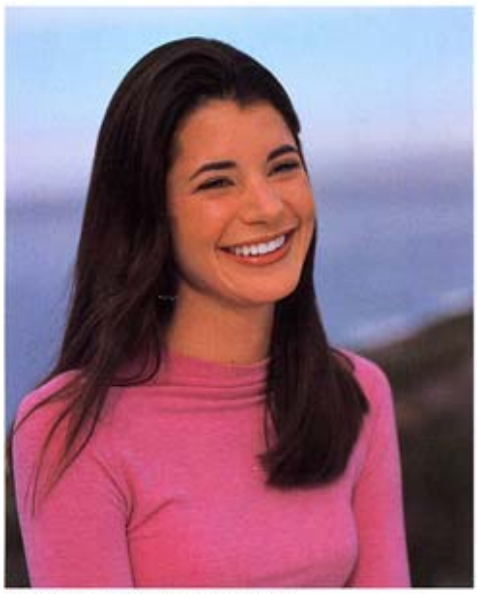
EISA AWARD — European Lens of the Year '97-'98
(Bestowed to model 72E)

SUPER PERFORMANCE SP

Ultra lightweight design using engineering plastic components in abundance

Since optical performance really matters for any 1:1 life-size macro lens, Tamron reconciles portability and remarkable image quality at a very high level in this SP lens. The SP AF90mm uses engineering plastic parts confidently in its barrel and mechanical parts in order to make it the most lightweight design in this class.





Exposure: Open aperture Auto ISO100

SP-series lenses featuring high design specifications

Tamron's SP (Super Performance) series is a line of high performance lenses featuring high design specifications. In designing the SP series lenses, the first and foremost priority is put on superior specifications and outstanding performance free from cost restraints. Therefore, SP lenses featuring impressive and innovative designs are concept models among Tamron lenses.

One-touch focus ring AF/MF switchover mechanism*

Simply sliding the focus ring back and forth quickly performs the one-touch AF/MF switchover function. The focus ring is sufficiently wide to enhance handling comfort while in the macro mode since this type of shooting involves frequent switching between AF and MF.

*The one-touch switchover function is available in Nikon AF-D and Canon AF mounts only. Minolta AF mount lens requires a two-step operation (camera and lens) since the switchover operation occurs on the camera

Model 172E Specifications

Model :	172E
Focal Length :	90mm
Angle of View :	27°
Maximum Aperture :	F/2.8
Optical Construction :	10 elements in 9 groups
Number of Diaphragm:	9 blades
Minimum Object Distance :	0.29m (11.4")
Max.Magnification Ratio :	1:1
Overall Length :	97mm (3.8")
Max. Diameter :	74mm (2.9")
Filter Size :	55mm
Weight :	420 grams (14.8 oz.)
Standard Accessory :	Lens hood and Case

For Canon AF, Minolta AF-D, Nikon AF-D and Pentax AF cameras.

Caution : Please read the instruction manual carefully before using the lens.

TAMRON®

Manufacturer of lenses for photographic, industrial, laboratory, video, and scientific applications.

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